





**FUSED IMIDAZOLE DERIVATIVE****Publication number:** WO2004096806**Publication date:** 2004-11-11**Inventor:** NAKAHIRA HIROYUKI (JP); HOCHIGAI HITOSHI (JP)**Applicant:** SUMITOMO PHARMA (JP); NAKAHIRA HIROYUKI (JP); HOCHIGAI HITOSHI (JP)**Classification:**

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**- European:** A61K31/52; A61K31/5377; C07D473/18

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 WO2004018469  
 WO03104229  
 WO03024965  
 WO03004496

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A compound represented by the following formula (I), a prodrug thereof, or a pharmaceutically acceptable salt of either. The compound has high DPP-IV inhibitory activity and has been improved in safety, toxicity, etc. (I) [In the formula, R<1> represents hydrogen, optionally substituted alkyl, etc.; R<2> represents hydrogen, optionally substituted alkyl, optionally substituted aryl, etc.; R<3> represents hydrogen, optionally substituted aryl, etc.; and -Y-NH2 represents, e.g., a group represented by the formula (A) (wherein m is 0, 1, or 2; and R<4> is absent or one or two R<4>'s are present, the R<4>'s each independently representing optionally substituted alkyl, etc.).]

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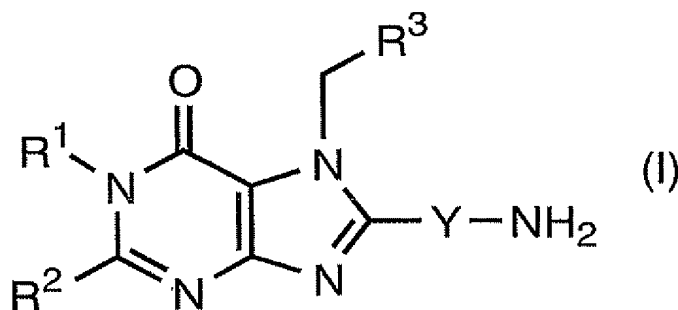
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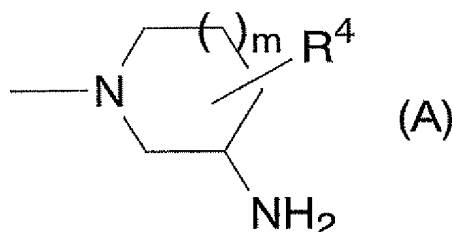
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(54) Title: FUSED IMIDAZOLE DERIVATIVE

(54) 発明の名称: 縮合イミダゾール誘導体



(57) Abstract: A compound represented by the following formula (I), a prodrug thereof, or a pharmaceutically acceptable salt of either. The compound has high DPP-IV inhibitory activity and has been improved in safety, toxicity, etc. (I) [In the formula, R<sup>1</sup> represents hydrogen, optionally substituted alkyl, etc.; R<sup>2</sup> represents hydrogen, optionally substituted alkyl, optionally substituted aryl, etc.; R<sup>3</sup> represents hydrogen, optionally substituted aryl, etc.; and -Y-NH<sub>2</sub> represents, e.g., a group represented by the formula (A) (wherein m is 0, 1, or 2; and R<sup>4</sup> is absent or one or two R<sup>4</sup>'s are present, the R<sup>4</sup>'s each independently representing optionally substituted alkyl, etc.).]



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